

## CLAIMS

1. A liquid crystal display device comprising:
  - a thin film transistor including a gate electrode formed
- 5 by a droplet discharge method;
  - a columnar conductive film formed by a droplet discharge method over a drain electrode of the thin film transistor; and
  - a pixel electrode connected to the columnar conductive film.
- 10 2. The liquid crystal display device according to Claim 1,
  - wherein the gate electrode is formed over an area which is pretreated.
- 15 3. The liquid crystal display device according to Claim 2,
  - wherein the area which is pretreated is formed using photocatalyst.
4. The liquid crystal display device according to Claim 1,
- 20 wherein at least one of the gate electrode, the drain electrode, and the columnar conductive film contains one selected from the group consisting of gold, silver, copper, platinum, palladium, tungsten, nickel, tantalum, bismuth, lead, indium, tin, zinc, titanium, and aluminum.
- 25 5. The liquid crystal display device according to Claim 1,
  - wherein the thin film transistor includes an amorphous semiconductor or a semiamorphous semiconductor.
- 30 6. A television receiver, wherein the liquid crystal display

device according to Claim 1 is included in a display screen of the television receiver.

7. A method for manufacturing a liquid crystal display device,  
5 comprising the steps of:

forming a gate electrode by a droplet discharge method;  
forming a first insulating film over the gate electrode;  
forming a semiconductor film over the first insulating  
film;  
10 forming a mask over the semiconductor film;  
 patterning the semiconductor film using the mask to form  
a patterned semiconductor film;  
 forming a thin film transistor using the patterned  
semiconductor film by forming source and drain electrodes by  
15 a droplet discharge method;  
 forming a columnar conductive film over one of the source  
and drain electrodes;  
 forming a second insulating film covering the columnar  
conductive film and the thin film transistor; and  
20 forming a pixel electrode connecting the columnar  
conductive film over the second insulating film.

8. A method for manufacturing a liquid crystal display device,  
comprising the steps of:  
25 forming a gate electrode by a droplet discharge method;  
forming a first insulating film over the gate electrode;  
forming a semiconductor film over the first insulating  
film;  
 forming a mask over the semiconductor film;  
30 patterning the semiconductor film using the mask to form

a patterned semiconductor film;

forming a thin film transistor using the patterned semiconductor film by forming source and drain electrodes by a droplet discharge method;

5 forming a columnar organic film over one of the source and the drain electrodes;

forming a second insulating film covering the columnar organic film and the thin film transistor;

removing the columnar organic film; and

10 forming a pixel electrode connecting the source or drain electrode over the second insulating film.

9. The method for manufacturing the liquid crystal display device according to Claim 7 or 8, wherein the method further 15 comprises a step of pretreating an area to where the gate electrode is formed.

10. The method for manufacturing the liquid crystal display device according to Claim 9, wherein the step of pretreating 20 uses photocatalyst.

11. The method for manufacturing the liquid crystal display device according to Claim 8, wherein the second insulating film is repellent to the columnar organic film.

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12. The method for manufacturing a liquid crystal display device according to Claim 8, wherein the columnar organic film is removed by water washing.